



PTO/SB/08a/b (07-05)

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		Application Number	10/528612		
		Filing Date	March 21, 2005		
		First Named Inventor	Michael Butters		
		Art Unit	1614		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	3	Attorney Docket Number	ASZD-P01-837

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
NG	AA*	US-2004/0048878-A1	03-11-2004	Cai et al.	
NG	AB*	US-2004/0220229-A1	11-04-2004	Bussolotti et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
NG	BA	EP-1088824 A2	04-04-2001			
NG	BB	EP-1136071 A3	03-26-2003			
NG	BC	WO-1994/18196 A1	08-18-1994			
NG	BD	WO-2001/28993 A2	04-26-2001			
NG	BE	WO-2002/06246 A1	01-24-2002			
NG	BF	WO-2002/20530 A1	03-14-2002			
NG	BG	WO-2003/074484 A1	09-12-2003			
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NG	BJ	WO-2003/074517 A1	09-12-2003			
NG	BK	WO-2003/074531 A1	09-12-2003			
NG	BL	WO-2003/074532 A1	09-12-2003			
NG	BM	WO-2003/091213 A1	11-06-2003			
NG	BN	WO-2004/041780 A2	05-21-2004			
NG	BO	WO-2004/058715 A1	07-15-2004		Abstract only	
NG	BP	WO-2004/113345 A1	12-29-2004			

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NG	CA	Adams et al., "4-Amino-4,5-dihydrothiophene-2-carboxylic acid," J. Org. Chem. 50:2730-2736 (1985)		
NG	CB	Binder et al., "Eine einfache herstellungsmethode fur 2-aminothiophene," Synthesis Communications 4:255-256 (1977)		
NG	CC	Binder et al., "Thiopen als strukturelement physiologisch aktiver substanzen, 8. mitt. 1H5H-imidazo[1,2-a]thieno[3,4-d]pyrimidin-2(3H-one)," Arch Pharm. 314:556-564 (1981)		
NG	CD	Bjork et al., "Improved syntheses of thieno[2,3-b]- and [3,2-b]-fused naphthyridines," J. Heterocyclic Chem. 32:751-754 (1995)		

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NG	CE	Boger et al., "Total synthesis of distamycin A and 2640 analogues: A solution-phase combinatorial approach to the discovery of new, bioactive DNA binding agents and development of a rapid, high-throughput screen for determining relative DNA binding affinity or DNA binding sequence selectivity," J. Am. Chem. Soc. 122:6382-6394 (2000)	
NG	CF	Brugier et al., "α-Substitution of β-thienylcarbamates: alkylation, vinylation and Pd-catalyzed coupling reactions," Tetrahedron 56:2985-2993 (2000)	
NG	CG	Brugier et al., "Studies on the reactivity of N-(3-thienyl)carbamates," J. Chem. Soc., Perkin Trans. 1:37-43 (2001)	
NG	CH	Brugier et al., "Synthesis and reactivity of alkyl (4-aminothien-3-yl)carbamates," Tetrahedron 53(30):10331-10344 (1997)	
NG	CI	Brunnett et al., "Heterocyclic amines. IV. Urethan and urea derivatives of 3-aminothiophene (1)," J. Heterocyclic Chem. 5(3):417-418 (1968)	
NG	CJ	Carroll et al., "Competitive ortho metalation effects: the kinetic and thermodynamic lithiation of 3-(tert-Butoxycarbonyl)amino-4-caromethoxythiophene," Tetrahedron Letters 38(15):2637-2640 (1997)	
NG	CK	Eras et al., "Reactivity of theinopyrroles. synthesis of isomeric nitro and bromothiopyrroles," J. Heterocyclic Chem. 21:215-217 (1984)	
NG	CL	Galvez et al., "Synthesis of isomeric β-haloethylthienopyrroles," J. heterocyclic Chem., 21, 393-395 (1984)	
NG	CM	Galvez et al., "Synthesis of thiophenedicarbonyldiazides and Di-t-butyl thiophendicarbamates," J. Heterocyclic Chem. 23:1103-1108 (1986)	
NG	CN	Jones et al., "The vilsmeier reaction of fully conjugated carbocycles and heterocycles," Organic Reactions 49:1-39 (1997)	
NG	CO	Kobayashi et al., "Heterocyclic sulfonyl compounds and activated blood coagulation factor X (FXa) inhibitors containing them," Chemical Abstracts XP002267904 & JP 2001 294572 (2001)	
NG	CP	Linda et al., "The mechanism of the Vilsmeier-Haack reaction. Part III. Structural and solvent effects," J. Chem. Soc. Perkins Trans II, 1610-1612 (1974)	
NG	CQ	Marques et al., "Toward an understanding of the chemical etiology for DNA minor-groove recognition by polyamides," Helvetica Chimica acta 85:4485-4517 (2002)	
NG	CR	Martin et al., "Nuclear magnetic resonance investigations of carbonium ion intermediates. Part II. Exchange reactions in chloro-iminium salts (Vilsmeier-Haack reagents)," Journal Chem. Soc., Perkins Trans II 642-646 (1974)	
NG	CS	Martin et al., "Recherches sur la reaction de vilsmeier-haack etude du mecanisme de formation du complexe par des mesures cinetiques en resonance magnetique nucleaire," Tetrahedron Letters 58:5061-5064 (1970)	
NG	CT	Meth-Cohn et al., "A versatile new synthesis of quinolines and related fused pyridines. Part II," Tetrahedron Letters 33:3111-3114 (1979)	
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NG	CV	Meth-Cohn et al., "A versatile new synthesis of quinolines, thienopyridines and related fused pyridines," Tetrahedron Letters 23:2045-2048 (1978)	
NG	CW	Meth-Cohn et al., "The preparation and formylation of 2-acetamidothiophenes," Synthesis 2:133-135 (1980)	
NG	CX	Nakamura, "Construction of heterocyclic compounds by use of alpha-diazaphosphonates: new one-pot syntheses of indoles and isocoumarines," Organic Letters 4(14):2317-2320 (2002)	

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NG	CY	Rajanna et al., "Kinetics and mechanism of Vilemeier-Haack synthesis of 3-formyl chromones derived from o-hydroxy aryl alkyl ketones: A structure reactivity study," Tetrahedron 52(10):3669-3682 (1996)	
NG	CZ	Seela et al., "168. Synthesis of 2'-deoxyribofuranosides of 8-Aza-7-deazaguanine and related pyrazolo[3,4-d]pyrimidines," Helvetica Chimica Acta 69:1602-1613 (1986)	
NG	CA1	Shinkwin et al., "Synthesis of thiophenecarboxamides, thieno[3,4-c]pyridin-4(5H)-ones and Thieno[3,4-d]pyrimidin-4(3H)-ones and preliminary evaluation as inhibitors of poly(ADP-ribose)polymerase (PARP)," Bioorganic & Medicinal Chemistry 7:297-308 (1999)	
NG	CB1	Shvedov et al., "2-Aminothieno [2,3-b]pyridine derivatives, Chemical Abstracts, XP002266826 & SU364613 (1973)	
NG	CC1	Soth et al., "Recherches en serie heterocyclique. XXIX. Sur des voies d'accès à des thieno, selenolo, furo et pyrrolopyrroles," Canadian Journal of Chemistry 56(6):1429-1434 (1978)	
NG	CD1	Stanetty et al., "Herbizide thienylhamstoffe, I," Monatshefte für Chemie 120:53-63 (1989)	
NG	CE1	Sugiyama et al., "Condensed thienopyrimidines. IV. Synthesis and gastric antisecretory activity of 2,3-dihydro-5H-oxazolothienopyrimidine derivatives," Chemical & Pharmaceutical Bulletin 37(10):2171-2722 (1989)	
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NG	CG1	Szabo et al., "Experimental and theoretical study of orientation in the nitration of dithieno[3,4-b:3',4'-d]pyridine," J. Organic Chem 56:1590-1596 (1991)	

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		Country Code <sup>3</sup>	Number-Kind Code <sup>4</sup> (if known)				
NG	BA	WO-94/18196 A		08-18-1994			
NG	BB	WO-02/06246 A		01-24-2002			

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NG	CL	Kobayashi et al., "Heterocyclic sulfonyl compounds and activated blood coagulation factor X (FXa) inhibitors containing them," Database CA 'online' Chemical Abstracts Service, Database accession no. 135:313616 XP002267904 368442-47-1 and JP 2001 294572 A (2001)	
NG	CM	Marques et al., "Toward an understanding of the chemical etiology for DNA minor-groove recognition by polyamides," Helvetica Chimica Acta 85(12):4485-4517 (2002)	
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Examiner Name	GRAZIER, NYEEMAH
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NG	4	2004196702	JP	A	2004-07-15	Yamanouchi Pharmaceutical Co., Ltd.	<input checked="" type="checkbox"/>
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NG	6	2004/031194	WO	A1	2004-04-15	AstraZeneca AB	<input type="checkbox"/>
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NG	1	Freeman, S., et al., "Effect of Glucose on Rat and Human Liver Glycogen Phosphorylase Activity and Potency of a Glycogen Phosphorylase Inhibitor," Diabetes, 52, Supp., 1470-P, A340 (2003)	<input type="checkbox"/>
NG	2	Turnbull, A., et al., "Pharmacological Inhibition of Glycogen Phosphorylase (GP) Lowers Plasma Glucose in Rat Models of Type 2 Diabetes," Diabetes, 52, Supp., 1485-P, A343 (2003)	<input type="checkbox"/>
	3	<del>Birch, A., et al., "Novel Thienopyrrole Glycogen Phosphorylase Inhibitors: In Vitro SAR and Crystallographic Studies," Poster, Cambridge Med Chem Symposium (Sept 2003)</del>	<input type="checkbox"/>
NG	4	Hudson, S., et al., "The effect of a glycogen phosphorylase inhibitor upon muscle fatigue in anaesthetised rats," J. Physiol., 539:52-53 (2002)	<input type="checkbox"/>
NG	5	Vertigan, H. et al. "Impact of cell glycogen content on modulation of hepatocyte glucose metabolism by pharmacological agents", EASD Munich (2004)	<input type="checkbox"/>
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NG	8	Green, A R. et al. "The Glycogenic Action of Protein Targeting to Glycogen in Hepatocytes Involves Multiple Mechanisms Including Phosphorylase Inactivation and Glycogen Synthase Translocation", J Biol Chem, 279(45), 46474-46482 (2004)	<input type="checkbox"/>
NG	9	Roberts, P A. et al. " The temporal relationship between glycogen phosphorylase and activation of the pyruvate dehydrogenase complex during adrenaline infusion in resting canine skeletal muscle", J Physiology-London 545(1), 297-304 (2002)	<input type="checkbox"/>

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